BANGALORE UNIVERSITY DEPARTMENT

OF CIVIL ENGINEERING

PMC REPORT

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Date : .....

Name of the work	**PROJECT:PROPOSED CONSTRUCTION OF RAJARAJESHWARI SCHOOL (KALPANA ROAD) BUILDING IN WARD NO.17 J.P.PARK, BANGALORE**
Name of Client	**Executive Engineer, Project Division, R R Nagar Zone, BBMP Banglore.**
Name of the contractor/Agency:	**M/S M R Infra, No.123/30, 4th Floor, 1st Main Road, Rajajinagar Industrial Town, Bangalore-10.**
Agreement No.	**EE(P)/RRN/AGR/35/2021-22 Dated: 10.01.2022**
Work Order No.	**EE(Proj)/RRN/WO.No/32/2021-22 Dated: 11.01.2022**
Contract Amount	**Rs. 8,00,00,000.00**
Consultancy Charges Amount	**Rs. 7,99,000.00**
Consultant Start Date of the work	**11-Jan-22**
Date Of Inspection	**22-Feb-22**
Bill Status	**1st and Part Bill**
In The Presence of	**Assistant Engineer, Ward No. 17, Project Division, R R Nagar Zone, BBMP, Banglore.**
	Channakeshava, Engineer, M/S Ess Ess Builders, PMC Consultants. Banglore-72

RA BILL: 01st and Part

Compliance Report ✓

Sl No	Description	Unit	BOQ Qty	Present Measurements	Comments / Observations
				Qty	
1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per	Ha	1.00	**0.97**	Work done upto the billed Quantity and Quality is Satisfactory
2	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required & utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and	Cum	2888.00	**2888.00**	Work done upto the billed Quantity and Quality is Satisfactory
3	Earth work excavation for foundation of structures upto 3 mtrs.by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising / transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. - do - In all types of soils	Cum	2083.65	**1573.46**	Work done upto the billed Quantity and Quality is Satisfactory
4	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Cum	863.40	**872.92**	Work done upto the billed Quantity and Quality is Satisfactory

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Address : H.O. No 78/129, Maruthinagar, Nagarabhavi Main Road, Bengaluru-560072
C.O. : Upstair Sanmathi Medicals, Slaters Hall Circle, Park Road, HASSAN-573 201
Website : essessbuildersandconsultants.com email : essessbldrs@gmail.com, info@ssbuildersandconsultant.com
Ph : (Off) 080-50038576, 08172-264013, (M) 94480-64014, 9916557576

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				Qty	
5	Providing sand and cement piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c/c and filling with sand and 10% cement and tamping wherever required including cost of materials, labour complete as per specifications	Sqm	1161.50	**1737.09**	Work done upto the billed Quantity and Quality is Satisfactory
6	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor,along the external perimeter of building,expansion joints,over the top surface of consolidated earth on which apron is to be laid,surrounding of pipes and conduits with chloropyriphos emulsifiable concentrates of 20% concentration,including cost of chemical,diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications.(Plinth area of the building at ground floor only shall be measured	Sqm	1126.50	**1126.50**	Work done upto the billed Quantity and Quality is Satisfactory
7	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum	232.30	**232.30**	Work done upto the billed Quantity and Quality is Satisfactory
8	Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.	Cum	56.1	**56.10**	Work done upto the billed Quantity and Quality is Satisfactory
9	Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications.specification	Cum	1021	**1021.00**	Work done upto the billed Quantity and Quality is Satisfactory
10	Loading and Unloading of Stone Boulders/Stone Aggregates/sand/Kanker/moorum by Manual Means complete as per specifications. MORTH -100/ Chapter 1 & cost of Haulage excluding loading & unloading - 15 km	Cum	2888	**2888.00**	Work done upto the billed Quantity and Quality is Satisfactory
11	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm & down size graded grinite metel coarse aggregates @ 0.892 cum & fine aggregates @ 0.465 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation & plinth, cost of all materials, labour, HOM of machinery, curing complete as per specification.	Cum	252.65	**252.65**	Work done upto the billed Quantity and Quality is Satisfactory
13	Providing & laying IN POSITION REINFORCED CEMENT CONCRETE of design mix M25 with OPC cement @ 340 Kgs with down size graded grinite metel coarse aggregates @ 0.70 Cum & fine aggregates @ 0.47 Cum with super plastisiser @ 3.0 Ltrs confirming to IS 9103-1999, re affirmed - 2008, Maichine mixed, concrete laid in layers not exeeceding 15cms thick, vibrated for all works in foundation ,Plinth,& Ground floor Level for Roof Slab, Staircase, Lintels, Retaining Wall, Pires, Abutments, Pillers, Posts, Struts, Butteress, String or Lasing Corsess, Prapeets Copings, Bed Blocks, anchor blocks, plain windows cills, filliets, etc including cost of all materials, laobur HOM of	Cum	26.7	**26.70**	Work done upto the billed Quantity and Quality is Satisfactory

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18	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) FOOTING & COLUMN	Cum	734	**635.50**	Work done upto the billed Quantity and Quality is Satisfactory
19	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) GRADE BEAM	Cum	428.6	**140.71**	Work done upto the billed Quantity and Quality is Satisfactory
20	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) ROOF SLAB	Cum	682.8	**289.87**	Work done upto the billed Quantity and Quality is Satisfactory
21	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for Foundation , footing , bases of columns for mass concrete including cost of all materials, labour complete as per specifications.	Sqm	818.94	**794.38**	Work done upto the billed Quantity and Quality is Satisfactory
22	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. GROUND FLOOR	Sqm	1907.1	**1907.10**	Work done upto the billed Quantity and Quality is Satisfactory
27	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. GROUND FLOOR	Sqm	627.5	**627.50**	Work done upto the billed Quantity and Quality is Satisfactory
32	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level - GROUND FLOOR	Sqm	1153.6	**1153.60**	Work done upto the billed Quantity and Quality is Satisfactory
37	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. GROUND , FIRST , SECOND, THIRD FLOOR	Sqm	182.8	**51.45**	Work done upto the billed Quantity and Quality is Satisfactory
39	Providing and removing centring, shuttering, strutting, proping etc., and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials,labour complete as per specification and directed by the Engineer in Charge. GROUND , FIRST , SECOND, THIRD FLOOR	Sqm	214	**84.96**	Work done upto the billed Quantity and Quality is Satisfactory

Assistant Executive Engineer (Project)
Brihat Bangalore Mahanagar Palike

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Website : essessbuildersandconsultants.com, Email : essessbldrs@gmail.com, info@ssbuildersandconsultant.com
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Sl No	Description	Unit	BOQ Qty	Present Measurements	Comments / Observations
				Qty	
40	Providing and laying in position reinforced cement cocnrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs maichine mixed well compacted plain chajja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification.GROUND FLOOR	Sqm	48	**43.91**	Work done upto the billed Quantity and Quality is Satisfactory
45	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels of all shapes & sizes, at all elevations & heights.	Sqm	195	**43.91**	Work done upto the billed Quantity and Quality is Satisfactory
48	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500. GROUND FLOOR	Sqm	90.53	**90.53**	Work done upto the billed Quantity and Quality is Satisfactory
53	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	58.4	**54.83**	Work done upto the billed Quantity and Quality is Satisfactory
54	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications GROUND FLOOR	Cum	209.1	**209.10**	Work done upto the billed Quantity and Quality is Satisfactory
59	Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 5.0Newton per Sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. GROUND FLOOR	Sqm	24	**24.00**	Work done upto the billed Quantity and Quality is Satisfactory
164	Geophysical investigation of site for sinking Bore - well for supplying drinking water to the habitation either through the Hand Pump, MWS or PWSS by vertical electrical sounding by adopting Veneer on Schlumbergers method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality quantity & accept - ability of the users indicating the location site, recommended depth of casing pipe required to seal the top unconsolidated formation, including an extra depth of 1.0 mtrs in consolidated formation for proper seating of casting depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personnel and labour required etc	Each	1	**1.00**	Work done upto the billed Quantity and Quality is Satisfactory

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Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

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Compliance Report

Sl No	Description	Unit	BOQ Qty	Present Measurements	Comments / Observations
				Qty	
165	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.1 - 0.00 to 50.00 mtrs	Each	50	50.00	Work done upto the billed Quantity and Quality is Satisfactory
166	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.2 - 50.00 to 100.00mtrs	Each	50	50.00	Work done upto the billed Quantity and Quality is Satisfactory
167	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.3 - 100.00 to 150.00 mtrs	Each	50	50.00	Work done upto the billed Quantity and Quality is Satisfactory
168	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.4 - 150.00 to 200.00 mtrs	Each	50	50.00	Work done upto the billed Quantity and Quality is Satisfactory
169	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.5 - 200.00 to 250.00 mtrs	Each	50	50.00	Work done upto the billed Quantity and Quality is Satisfactory

B.K. [illegible]
Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Address :H.O. : No. 70/120, Maruthinagar, Nayanahalli Main Road, Bengaluru-560072
C.O. : Upstair Sanmathi Medicals, Slaters Hall Circle, Park Road, HASSAN-573 201
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RA BILL: 01st and Part

Compliance Report

Sl No	Description	Unit	BOQ Qty	Present Measurements Qty	Comments / Observations
170	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 HP(C) and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.6 - 250.00 to 300.00 mtrs	Each	50	50.00	Work done upto the billed Quantity and Quality is Satisfactory
171	Supply of ISI mark 175 mm nominal bore, plain end steel casing pipe grade of steel Fe 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, eletric resistence welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10Kg/mtr (inclusive of all taxes and duties). Prices including collar medium duty	Each	30	1.00	Work done upto the billed Quantity and Quality is Satisfactory
172	Providing and fixing 175mm dia borewell cap medium class(MR)	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
173	M.S Casing pipe collars "B" class (MR)	Nos	5	5.00	Work done upto the billed Quantity and Quality is Satisfactory
174	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dia and haing declared duty conditions as detailed below nd satisfying performance characteristic for pump and motar as declared by Bureau of Indian Standards. The pump should confirm to IS 928 / 55 (with all its latest amendments) and should bear the ISI certification mark is 928/55. The pumpset should consist of bronze impellers, Discharge : 750 lph, Head L102.88 mts 10HP /7.5KW 20 Stage. ATLANTA,Suguna, CRI, Kirloskar or other equivalent pumps	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
175	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130 1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. 3C X 6.0Sq mm	Nos	300	300.00	Work done upto the billed Quantity and Quality is Satisfactory
176	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at the site free of cost)(CE (M) BWSSB, Letter No.BWSSB/CE(M)ACE(M)-II/TA-8/9194/2008-09 dated 21/1/09)	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory

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177	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. 50 mm dia	Nos	2	2.00	Work done upto the billed Quantity and Quality is Satisfactory
178	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor. - Above 12.5 HP upto 25 HP	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
179	Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 Nos) HRC fuses above 100A (3 Nos.) / Digital ammeter/digital volt meter/set of 3 indicating lamps /MCB / Relays /A-V selector switches including wiring using suitable capacity wires, bolts, nuts,screws.	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
180	Fabricating, supplying and mounting MS box made out of 18 SWG suitable for floor/ wall mounting, fully weather proof with provision for better heat dissipation provided with hinged front cover with with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7 Tanks Treatment wit powder coat ed paint & finaly finished with approved colour & etc	Nos	30000	30000.00	Work done upto the billed Quantity and Quality is Satisfactory
181	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required - 40 to 63 amps triple pole	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
182	Supplying andrunning of GI copper strip or grounding connection using necessary fixing material required 600x600c3mm GI plate	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
183	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden /panel using necessary nuts bolts and washer etc., complete....	Nos	3	3.00	Work done upto the billed Quantity and Quality is Satisfactory
184	Providing and fixing in position brass gate valve with C.I. Wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete s per specifications. Specification No.KBS 13.2.6/ 13.3	Nos	1	1.00	Work done upto the billed Quantity and Quality is Satisfactory
185	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 Sqmm PVC cable	Nos	25	25.00	Work done upto the billed Quantity and Quality is Satisfactory
186	Labour charges for Laying of 1.1 KV Class UG cable 6 Sqmm to 16 sqmm (KPWD Elec SR 2019-20 Pg no.61 sl no.7.8.1	Nos	25	25.00	Work done upto the billed Quantity and Quality is Satisfactory
187	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete. complete as per specifications and direction of the Engineer-in-Charge	Nos	20	20.00	Work done upto the billed Quantity and Quality is Satisfactory

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188	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 65mm	Nos	10	**10.00**	Work done upto the billed Quantity and Quality is Satisfactory
189	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification	Each	1	**1.00**	Work done upto the billed Quantity and Quality is Satisfactory
190	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specification.spacification. No.KBS 2.1(b) / 2.3.5	Cum	15.75	**15.75**	Work done upto the billed Quantity and Quality is Satisfactory
191	Providing and Installing at site work P.V.C Including cost of pipe and specials and Labour, including lowering into trenches, laying true to line level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe allround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., Complete, PVC pipes 63mmdia of 6kg/cm2 PRED SR Page NO.15,item nO.3.4.2	Cum	35	35.00	Work done upto the billed Quantity and Quality is Satisfactory
192	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specificifictions.	Cum	11.81	11.81	Work done upto the billed Quantity and Quality is Satisfactory

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